



**HARDWARE
FOR
TIN-CLAD
FIREPROOF
DOORS**

Catalog No. 210



**THE COLORADO FUEL AND IRON CORPORATION
WICKWIRE SPENCER STEEL DIVISION
Pacific Coast Subsidiary
THE CALIFORNIA WIRE CLOTH CORPORATION**

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Catalog 210

Hardware for Fireproof Doors

OTHER CATALOGS

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Sliding Door Hardware, Including Garage Door, Warehouse Door and Folding Partition Hardware.
Overhead Conveying Equipment.

COBURN TROLLEY TRACK

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Pacific Coast Subsidiary

THE CALIFORNIA WIRE CLOTH CORPORATION
1080 19TH AVENUE • OAKLAND 6, CALIFORNIA

National Style "A"

THE UNDERWRITERS' FAVORITE INCLINE SLIDE



This hardware is made in accordance with the specifications of the National Board of Fire Underwriters and bears the label of Underwriters' Laboratories, Inc. Each set includes one fusible link which projects into the opening where it is exposed to a fire on either side of the wall. When the fusible link melts, the weight drops to the floor and the door is closed by gravity.

This set is the most popular type of fire door hardware. It has received universal approval of the various insurance organizations and it can be used in any part of the United States, except where local ordinance calls for special arrangement of counter weight. See Page 4.

COMPOUNDING THE WEIGHT

When this type of hardware is used on openings where the width exceeds the height, the distance between the track and the floor is not sufficient to permit the standard weight arrangement. In such cases the weight is compounded. This means that twice the weight is used but it only travels half as far due to the fact that the cord is passed through a swivel pulley attached to the weight and up to a fixed eye bolt which is fastened to the wall. An additional charge is made under such conditions for the extra material.

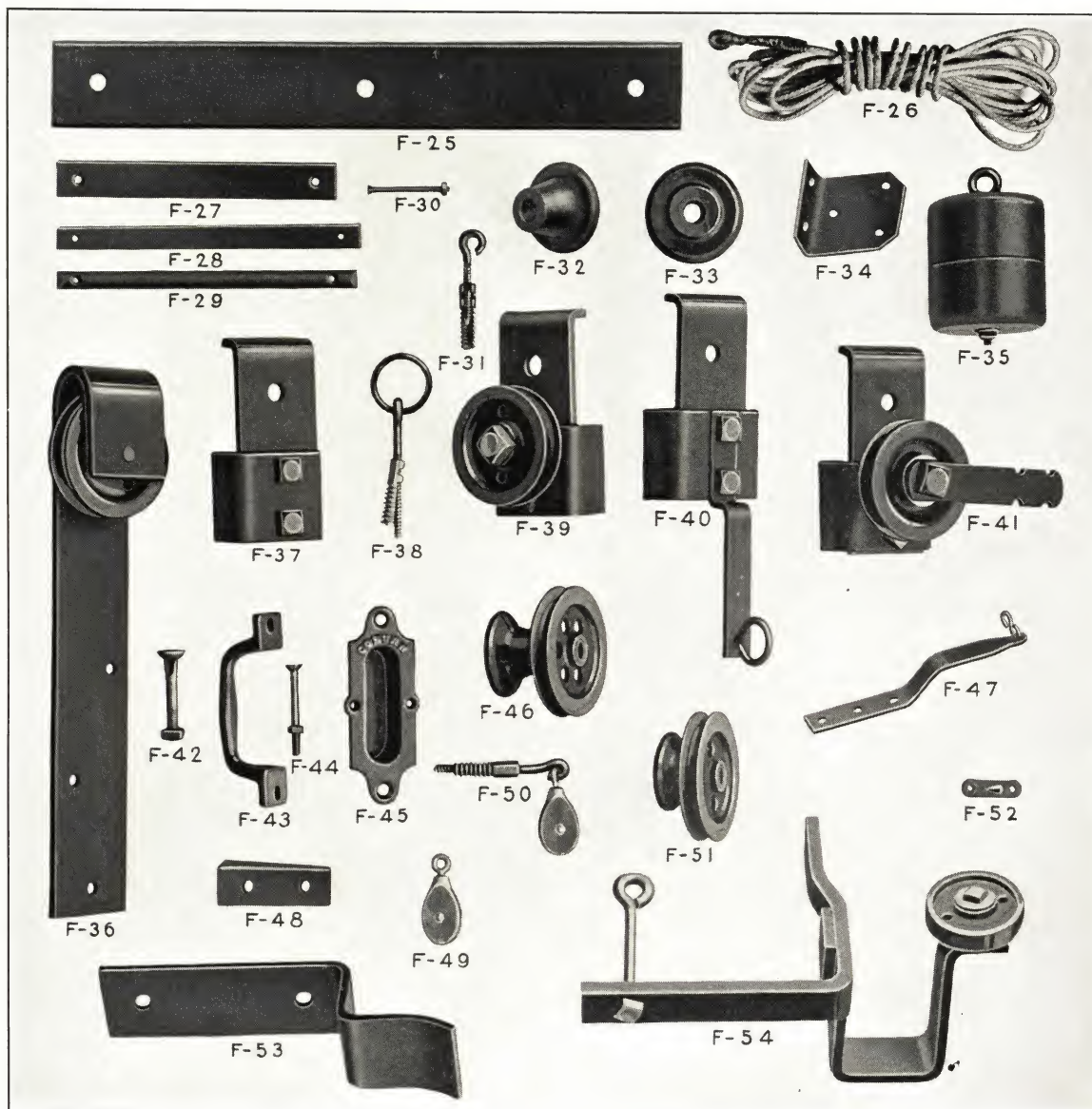
Three hangers are required for labeled fixtures when the opening is over 6 feet wide.

Parts are illustrated on pages 3 and 6.

For headroom required see page 7.

When ordering give data on page 12.

Slide Door Fixtures



Part No.

F-25	TRACK 3½" x ¾"
F-26	SASH CORD
F-27	CHAFE STRIP 1½" x ⅛" for guide roll
F-28	WASHER STRIP 1" x ⅛" for front of door
F-29	HALF OVAL CHAFE STRIP, ¾" x ¼"
*F-30	¼" TIRE BOLT
F-31	EXPAN. EYE BOLT, ¾"
*F-32	TRACK BRACKET
F-33	HEAVY WASHER, ¾"
*F-34	BUMPER SHOE

Part No.

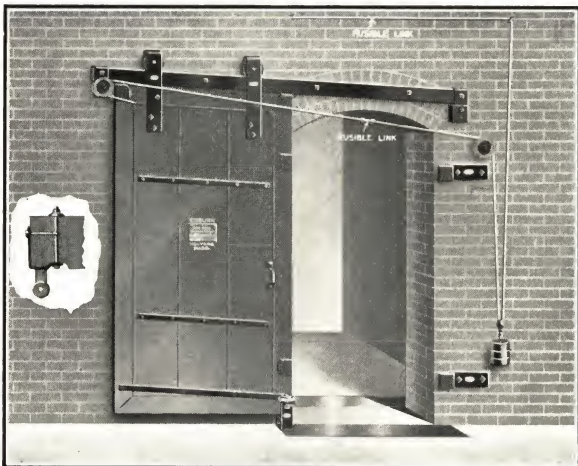
F-35	WEIGHT, 4½" or 6"
*F-36	ROLLER BEARING HANGER
F-37	FRONT BUMPER
F-38	EXPAN. EYE BOLT ¾" With 2" Ring
F-39	REAR STOP AND PULLEY
F-40	BUMPER & ARM Cincinnati Standard
F-41	REAR STOP AND PULLEY with trip bar
*F-42	½" CARRIAGE BOLT FOR HANGER
F-43	HEAVY RAISED HANDLE

Part No.

*F-44	⅜" STOVE BOLT
*F-45	HEAVY FLUSH HANDLE
F-46	PULLEY AND BUSHING on ¾" bracket
F-47	LINK ARM AND "S" HOOK
F-48	CAST IRON WEDGE
F-49	SWIVEL PULLEY
F-50	SWIVEL PULLEY & ⅜" EXPAN. EYE
F-51	PULLEY AND BUSHING on 1½" bracket
F-52	FUSIBLE LINK, Underwriters' Standard
*F-53	BINDER
*F-54	GUIDE ROLL

*Must have thickness of door. Standard sizes are 1¾" and 2½".

Philadelphia Standard INCLINE SLIDE



This hardware is made in accordance with the specifications of the National Board of Fire Underwriters and bears the label of Underwriters' Laboratories, Inc. Each set includes two fusible links, one for the wall above the door and one for the top of the opening where it is exposed to a fire on either side of the wall. If either fusible link melts, the weight drops to the floor and the door is closed by gravity. All sets are packed with bolts and screws for attaching parts to the door. Three hangers are required for labeled fixtures when the opening is over 6 feet wide.

Cincinnati Standard INCLINE SLIDE



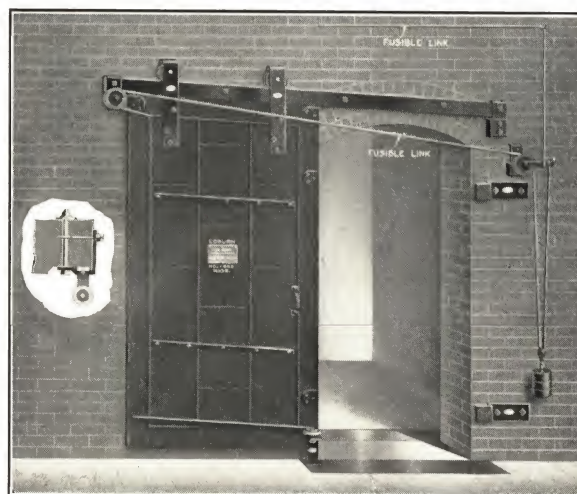
New York Standard INCLINE SLIDE



This hardware is made in accordance with the specifications of the National Board of Fire Underwriters and bears the label of Underwriters' Laboratories, Inc. Each set includes two fusible links, one for the wall above the door and one projecting into the opening where it is exposed to a fire on either side of the wall. If either fusible link melts, the weight drops to the floor and the door is closed by gravity. All sets are packed with bolts and screws for attaching parts to the door.

Three hangers are required for labeled fixtures when the opening is over 6 feet wide.

Pacific Coast Standard INCLINE SLIDE

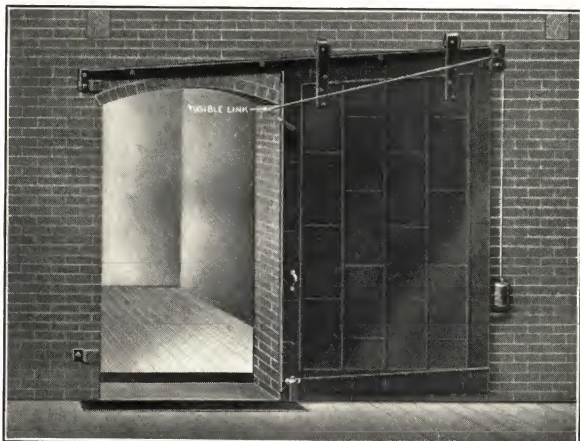


This hardware is made in accordance with the specifications of the National Board of Fire Underwriters and bears the label of Underwriters' Laboratories, Inc. Each set includes two fusible links, one located near the ceiling and one located in the opening where it is exposed on both sides of the fire wall. The rope is passed around the horizontal lever arm and through the pulley attached to the weight. If either fusible link melts, the weight drops to the floor and the door is closed by gravity.

Three hangers are required for labeled fixtures when the opening is over 6 feet wide.

Parts shown on pages 3 and 6. For headroom required see page 7; when ordering give data on page 12.

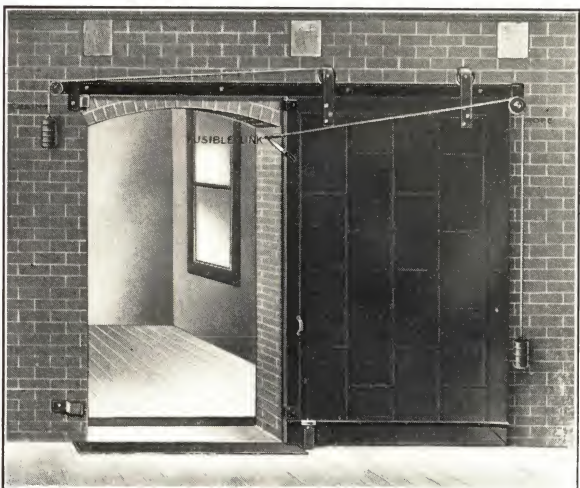
Style "A" — Not Labeled INCLINE SLIDE



This hardware does not bear the label of Underwriters' Laboratories, Inc. Each set includes one fusible link which projects into the opening where it is exposed to a fire on either side of the wall. When the fusible link melts, the weight drops to the floor and the door is closed by gravity. For unusually wide openings the weight must be compounded as explained on page 2.

On openings over 10 feet wide, three hangers are furnished.

Style "C" LEVEL SLIDE



This hardware can be furnished with or without the label of Underwriters' Laboratories, Inc. It is used when the headroom is not sufficient to permit the incline slide type. When fire melts the fusible link the counterweight at the right drops to the floor and the closing weight at the left pulls the door closed by means of a chain attached to the front door hanger.

Three hangers are required for labeled fixtures when the opening is over 6 feet wide.

Style "B" DOUBLE INCLINE SLIDE



This hardware can be furnished with or without the label of Underwriters' Laboratories, Inc. Each door operates independently of the other with a separate fusible link and a separate weight. It is necessary for both fusible links to melt before the entire opening is closed.

Steel astragal to bolt to door furnished when specified, giving height of door at low end.

Style "CC" DOUBLE LEVEL SLIDE

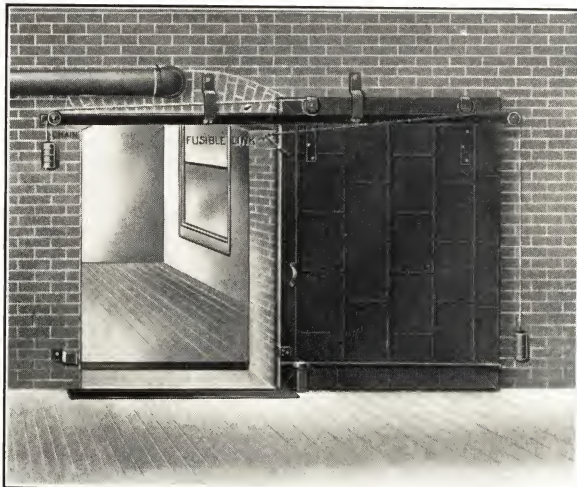


This hardware can be furnished with or without the label of Underwriters' Laboratories, Inc. The chain on the small bob weights passes through a vertical hole in the large counterweights. When the fusible link melts, the counterweights slide down the chain and the combined weight pulls the doors closed.

Steel astragal to bolt to door furnished when specified. Give height of door when ordering.

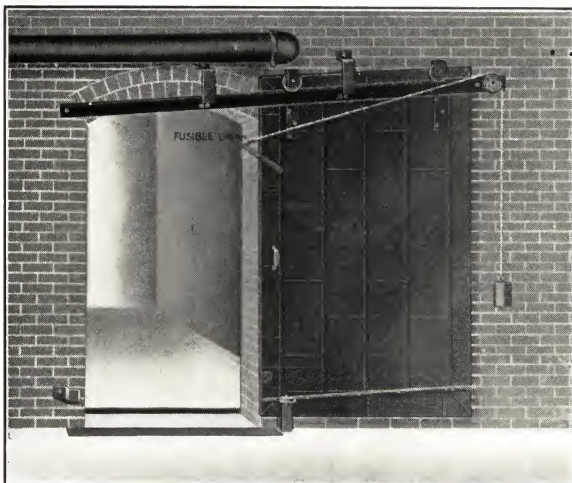
Parts for all of above sets shown on pages 3 and 6. For headroom required, see page 7; when ordering give data on page 12. All sets packed with bolts and screws for attaching parts to door.

Style "D" LEVEL SLIDE FOR LIMITED HEADROOM



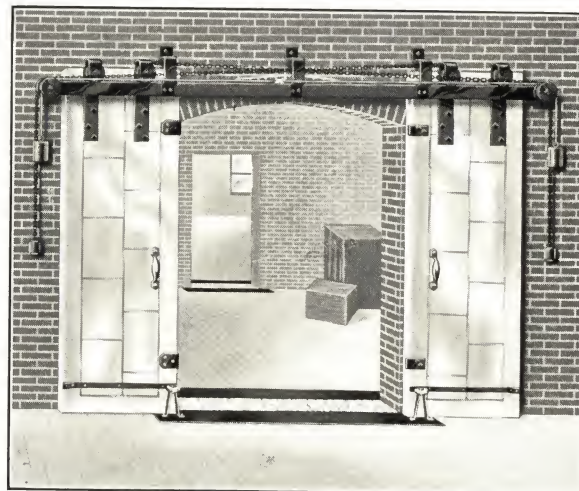
This hardware can be furnished with or without the label of Underwriters' Laboratories, Inc. The headroom required is reduced to the minimum by suspending the track on overhanging brackets and by reversing the hangers so they can be lowered several inches on the door. The automatic closing device is similar to that used on Style "C."

Style "E" INCLINE SLIDE FOR LIMITED HEADROOM



This hardware can be furnished with or without the label of Underwriters' Laboratories, Inc. The headroom required is reduced to the minimum by suspending the track on overhanging brackets and by reversing the hangers so they can be lowered several inches on the door.

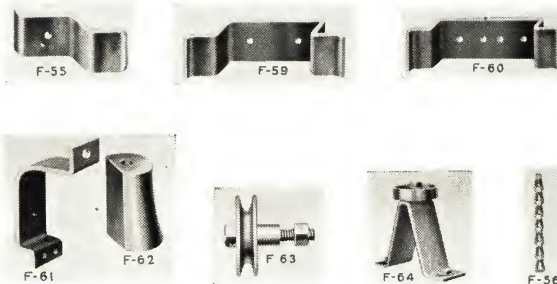
Style "DD" DOUBLE LEVEL SLIDE



This hardware can be furnished with or without the label of Underwriters' Laboratories, Inc. It is designed for minimum headroom and wall space requirements. The automatic closing operation is similar to that used on Style "CC."

Steel astragal to bolt to door furnished when specified. Give height of door when ordering.

Stops and Guides



Part No.	
*F-55	BINDER FOR WALL
F-56	HEAVY GALVANIZED CHAIN
F-59	CENTER STOP, for narrow doors
F-60	CENTER STOP, for wide doors
*F-61	STEEL TRACK, BRACKET, used with Style "D," "DD," and "E"
*F-62	TRACK BRACKET AND STOP, used with Style "D," "DD," and "E"
F-63	PULLEY WITH SHOULDER BOLT
F-64	GUIDE ROLL FOR FLOOR

*Must have thickness of door.
Standard sizes are 1 $\frac{3}{4}$ " and 2 $\frac{1}{2}$ ".

Parts for all of these sets shown on page 3, and in table above. For headroom required, see page 7; when ordering give data on page 12. All sets packed with bolts and screws for attaching parts to door. On labeled sets "D" and "E" for opening, over 6 feet wide, three hangers are required.

Headroom Required for Sliding Fire Doors

ARCHED TOP OPENINGS

Width of Opening	Headroom Required		
	Style "A"	Style "E"	Style "B"
3 ft. 0 in.	19"	12½"	16½"
4 ft. 0 in.	20⅝"	13⅝"	17¼"
5 ft. 0 in.	21¼"	14¾"	18"
6 ft. 0 in.	22⅜"	15⅞"	18¾"
7 ft. 0 in.	23½"	17"	19½"
8 ft. 0 in.	24⅝"	18⅞"	20¼"
9 ft. 0 in.	25¾"	19¼"	21"
10 ft. 0 in.	26⅞"	20⅜"	21¾"
11 ft. 0 in.	28"	21½"	22½"
12 ft. 0 in.	29⅝"	22⅝"	23¼"

FLAT TOP OPENINGS

Width of Opening	Headroom Required		
	Style "A"	Style "E"	Style "B"
3 ft. 0 in.	19"	12½"	16½"
4 ft. 0 in.	20½"	14"	17¼"
5 ft. 0 in.	22"	15½"	18"
6 ft. 0 in.	23½"	17"	18¾"
7 ft. 0 in.	25"	18½"	19½"
8 ft. 0 in.	26½"	20"	20¼"
9 ft. 0 in.	28"	21½"	21"
10 ft. 0 in.	29½"	23"	21¾"
11 ft. 0 in.	31"	24½"	22½"
12 ft. 0 in.	32½"	26"	23¼"

Headroom required for Gravity Slide Doors, Philadelphia Standard, Cincinnati Standard, New York Standard, and Pacific Coast Standard is the same as Style "A."

Headroom required for Level Slide Doors, Style "C" and "CC," is 14".

Headroom required for Level Slide Doors, Style "D" and "DD," is 7½".

Headroom required for Vertical Slide Doors, Style "G," is 6" more than the height of the door.

Headroom required for Vertical Slide Doors, Style "H," is 12" more than the height of the door.

Wall Space Required for Sliding Fire Doors

Type of Hardware	Wall Space Required	
	Larger Side	Smaller Side
National Style "A"	W + 15"	14"
New York Standard	W + 17½"	14"
Philadelphia Standard	W + 15"	14"
Pacific Coast Standard	W + 15"	14"
Cincinnati Standard	W + 20"	14"
Style "A", Not Labeled	W + 15"	9"
Style "B"	$\frac{W}{2} + 11"$	$\frac{W}{2} + 11"$
Style "C"	W + 15"	14"
Style "CC"	$\frac{W}{2} + 11"$	$\frac{W}{2} + 11"$
Style "D"	W + 16"	14"
Style "DD"	$\frac{W}{2} + 12"$	$\frac{W}{2} + 12"$
Style "E," Labeled	W + 16"	14"
Style "E," Not Labeled	W + 16"	9"
Style "G"	13"	11"
Style "H"	13"	11"

W = Width of opening.

See table on page 11 giving number of bolts required for Sliding Fire Door Hardware Sets.

Style "N" SINGLE SWING

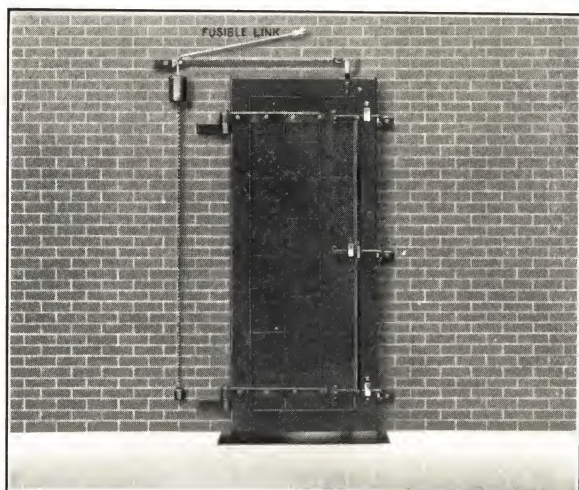


Illustration shows Style "N," Not Labeled Fixtures

On labeled sets for masonry openings the Underwriters require the use of Pintles F-101, F-102 and F-103. With angle or channel frames Pintle F-108L is used. See page 9 for illustrations.

These sets made for overlap and flush doors on masonry opening and flush doors in steel frame, either labeled or not labeled. Steel astragal for bolting to door on "NN" sets furnished only when specified. When ordering give data on page 12.

Style "NN" DOUBLE SWING

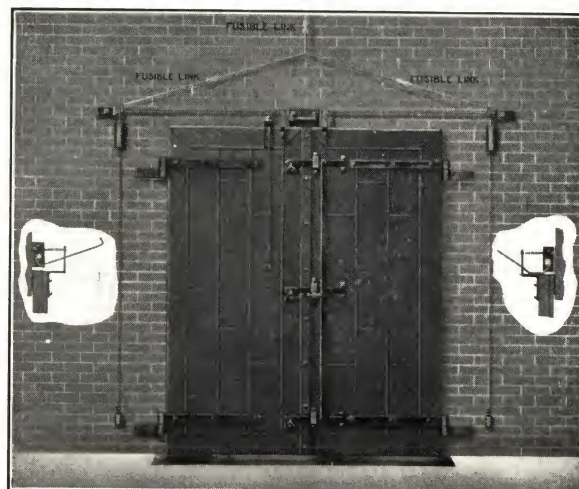
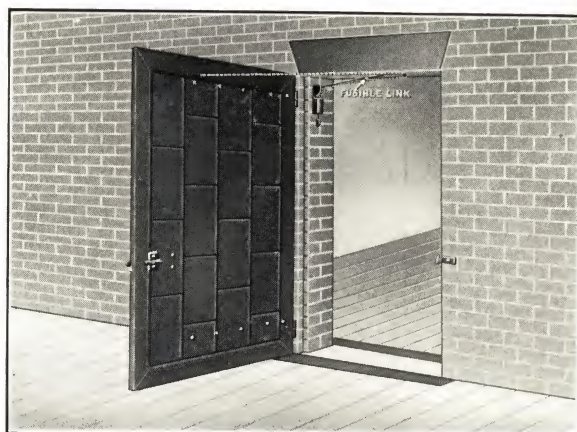


Illustration shows Style "NN," Not Labeled Fixtures

On labeled sets for masonry openings the Underwriters require the use of Pintles F-101, F-102, and F-103. With angle or channel frames Pintle F-108L is used. See page 9 for illustrations.

Style "R" SINGLE SWING (Not Labeled)



This type of hardware may be substituted for Style "N" hardware when it is not necessary to conform to the Underwriters' requirements and when an inexpensive installation is desired. Style "R" hardware requires no headroom, as the fusible link is located in the opening.

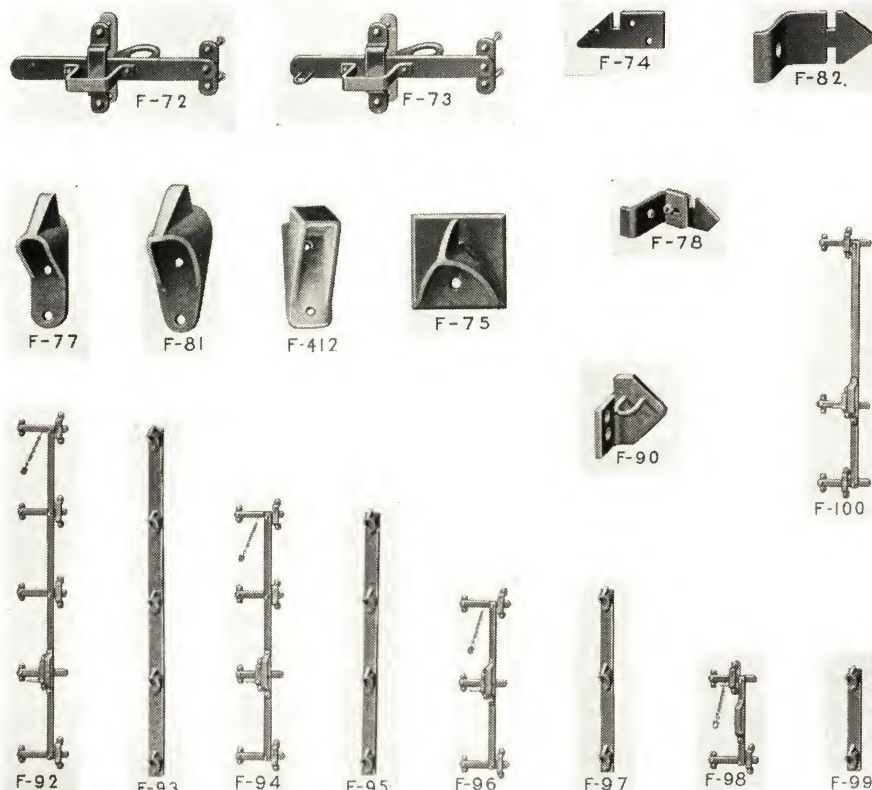
These sets made for overlap and flush doors on masonry openings, and flush doors in metal covered wood frames. Steel astragal furnished with "RR" sets only when specified. When ordering give data on page 12.

Style "RR" DOUBLE SWING (Not Labeled)



This type of hardware may be substituted for Style "NN" hardware when it is not necessary to conform to the Underwriters' requirements and when an inexpensive installation is desired. Style "RR" hardware requires no headroom, as the fusible link is located in the opening.

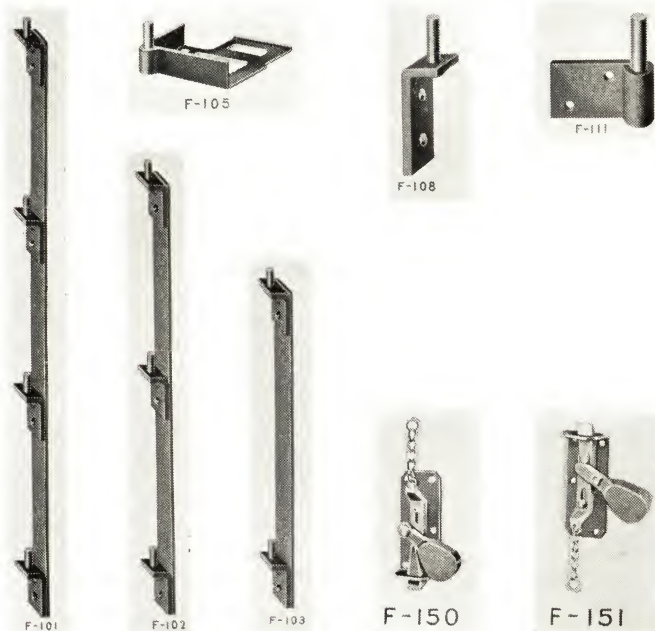
Latches



Part No.	
F-72	SINGLE LATCH loop handle
†F-73	SINGLE LATCH, rt. & left for padlock
F-74	LATCH CATCH to fasten to frame
F-75	LATCH CATCH for pair of doors
F-77	LATCH CATCH to attach to frame
F-78	LATCH CATCH, adj. for overlap door
F-81	LATCH CATCH to attach to frame
‡F-82	LATCH CATCH for overlap door
‡F-90	LATCH CATCH, rt. & left for padlock
§F-92	FIVE BAR LATCH, labeled
§F-93	LATCH CATCH for five bar latch
§F-94	FOUR BAR LATCH, labeled
§F-95	LATCH CATCH for four bar latch
§F-96	THREE BAR LATCH, labeled
§F-97	LATCH CATCH for three bar latch
§F-98	TWO BAR LATCH, labeled
§F-99	LATCH CATCH for two bar latch
§F-100	TRIPLE LATCH, not labeled
‡F-412	LABELLED LATCH

†Advise whether right or left hand.
‡State thickness of door when ordering.
§Give height of door when ordering.

Hinge Pintles and Door Bolts



Part No.	
F-101	QUADRUPLE 3/4" PINTLE to bolt to wall
F-102	TRIPLE 3/4" PINTLE to bolt to wall
F-103	DOUBLE 3/4" PINTLE to bolt to wall
†F-105-A	3/4" PIN BLOCK, left to build in wall
†F-105-B	3/4" PIN BLOCK, right to build in wall
†F-105-C	5/8" PIN BLOCK, left to build in wall
†F-105-D	5/8" PIN BLOCK, right to build in wall
F-108-A	Not labeled, 3/4" PINTLE to bolt to frame
F-108-B	Not labeled, 5/8" PINTLE to bolt to frame
F-108-L	3/4" PINTLE to bolt to frame labeled
‡F-111-A	3/4" PINTLE, left to bolt to frame
‡F-111-B	3/4" PINTLE, right to bolt to frame
‡F-111-C	5/8" PINTLE, left to bolt to frame
‡F-111-D	5/8" PINTLE, right to bolt to frame
F-150	GRAVITY BOTTOM BOLT
F-151	GRAVITY TOP BOLT

†Cuts show left hand pintle.
‡Cut shows right hand pintle.

Hinges

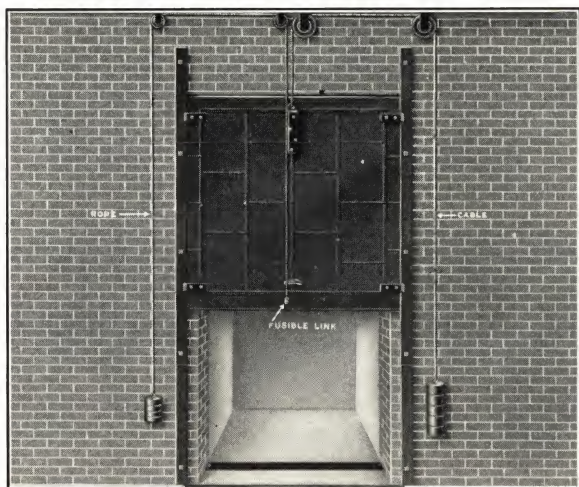


Standard Fire Door Hinges are made of 3/8" x 2 1/2" Steel for 3/4" Pintle, and 5/16" x 2" Steel for 5/8" Pintle*. These are carried in stock in the following sizes — 18", 24", 27", 30" and 36" long. Standard hinges are straight, but may be offset to suit special conditions at nominal extra charge.
*5/16" x 2" Hinges cannot be labeled.

Style "G" and Style "H"

VERTICAL SLIDE

STYLE "G" PULLEYS FASTEN TO CEILING
STYLE "H" SAME AS STYLE "G"
EXCEPT PULLEYS BOLT TO WALL



These sets made to order to suit various sizes of doors and conditions surrounding opening. Price quoted on application, giving following information:

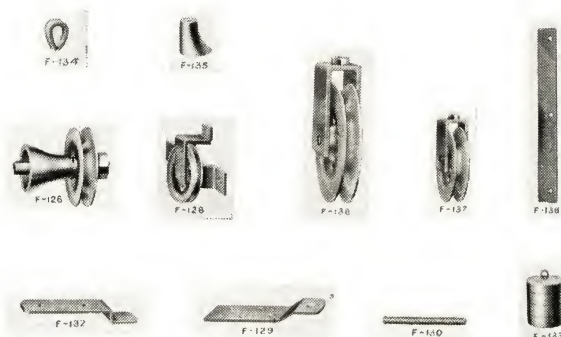
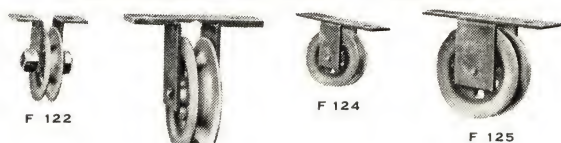
Size of opening, and thickness of door.

Clear height above top of opening.

Clear wall space each side of opening.

For headroom required see page 7.

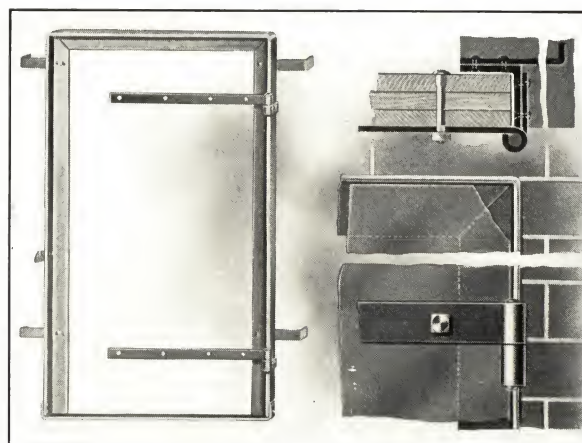
Vertical Slide Fixtures



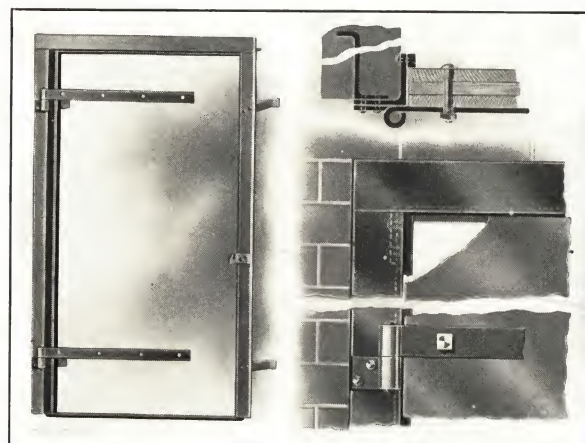
F-122	5" SHEAVE	F-130-B	1/2" CABLE
F-123	8" SHEAVE, roller bearing	F-131	STD. CABLE CLAMP (not illustrated)
F-124	5" SHEAVE	F-132	DOOR GUIDE
F-125	8" SHEAVE, roller bearing	F-133	WEIGHT, 4 1/2" or 6"
F-126	5" SHEAVE	F-134	CABLE THIMBLE
F-128	8" SHEAVE, roller bearing	*F-135	TRACK BRACKET
F-129	ROPE STRAP	F-136	3" x 1/4" TRACK
F-130-A	3/8" CABLE	F-137	5" SHEAVE
		F-138	8" SHEAVE, roller bearing

*Must have thickness of door. Standard sizes are 1 3/4", 2 1/2".

Angle Iron Door Frames



STYLE NO. 1 FRAME



STYLE NO. 2 FRAME

Both of the above frames are constructed in accordance with the specifications of the National Board of Fire Underwriters. Each type provides a firm protection for the opening and a strong support for the swinging fire door with which it is used.

Style No. 1 Frame is furnished complete with anchors as shown and should be set into the wall as the wall is being built. The vertical sides of the frame are made long enough to project 2" into the floor except when the frame sets on top of a threshold.

Style No. 2 Frame, when furnished with anchors as shown above, should be set into the wall as the wall is built. However, this frame may be installed after the wall is built, and in such a case clips are furnished for attaching the frame to the face of the wall with wall bolts. The vertical sides of the frame are made long enough to project 2 inches into the floor, except when the frame sets on top of a threshold.

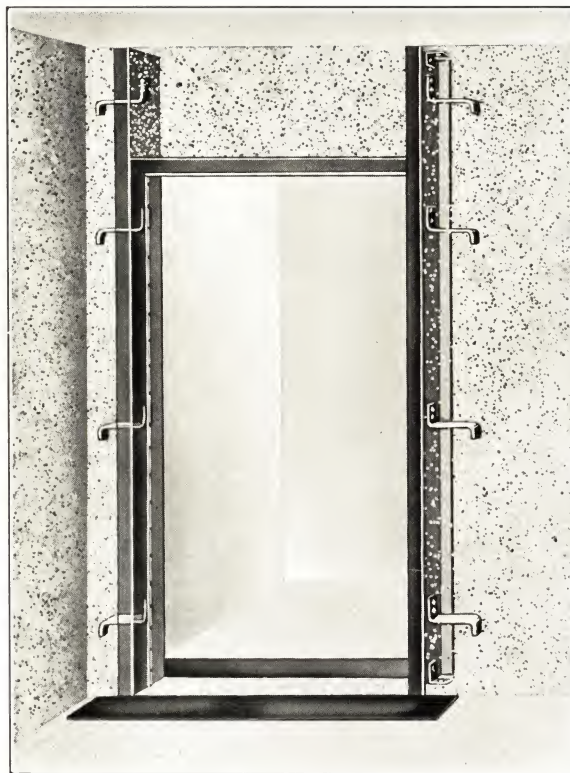
When ordering, advise width, height, and thickness of doors, whether single or double, how they swing, and whether frames will extend into the floor or set on a threshold.

Frames do not include hinges, pintles, or catches. Pintles and catches will be attached to the frames at no additional charge when complete sets of hardware are ordered with the frames.

Channel Iron Door Frames

PLAIN CHANNEL IRON FRAME

"H" CHANNEL IRON FRAME



Channel iron frames with anchors attached as illustrated above must be placed in the wall as the wall is built. The plain channel iron frame, however, may be erected after the wall has been built by assembling the frame on the job and using expansion bolts instead of anchors for attaching it to the wall. The size of the channel is usually one inch larger than the thickness of the wall.

Each frame is furnished long enough to allow the vertical sides to set 2" into the floor, unless the frame sets on a threshold.

The "H" Channel Iron Frame extends from floor to ceiling and its use is recommended where the wall is not strong enough to hold a plain channel iron frame. This frame is furnished unassembled.

Number of Wall Bolts Required for Sliding Fire Door Hardware Sets

Width of Opening	Number of Track Bolts								Number of Binder Bolts							
	National Style "A"	Styles "A" and "C" not labeled.	Styles "B" and "CC" labeled.	Styles "B" and "CC" not labeled.	Styles "D" and "E" labeled.	Styles "D" and "E" not labeled.	Style "DD," Labeled	Style "DD," Not Labeled	National Style "A"	Styles "A" and "C" not labeled.	Styles "B" and "CC" labeled.	Styles "B" and "CC" not labeled.	Styles "D" and "E" labeled.	Styles "D" and "E" not labeled.	Style "DD," Labeled	Style "DD," Not Labeled
3 ft. 0 in.	5	3	6	4	5	3	5	3	4	1	0	0	4	2	0	0
4 ft. 0 in.	5	4	6	4	5	4	5	4	4	1	0	0	4	2	0	0
5 ft. 0 in.	6	5	8	6	6	5	6	5	4	1	0	0	4	2	0	0
6 ft. 0 in.	7	5	8	6	7	5	7	5	4	1	0	0	4	2	0	0
7 ft. 0 in.	7	6	8	6	7	6	7	6	4	1	0	0	4	2	0	0
8 ft. 0 in.	9	7	8	8	9	7	9	7	4	1	0	0	4	2	0	0
9 ft. 0 in.	10	7	10	8	10	7	10	7	4	1	0	0	4	2	0	0
10 ft. 0 in.	10	8	10	8	10	8	10	8	4	1	0	0	4	2	0	0
11 ft. 0 in.	10	9	10	10	10	8	10	8	4	1	0	0	4	2	0	0
12 ft. 0 in.	11	9	12	10	11	9	11	9	4	1	0	0	4	2	0	0

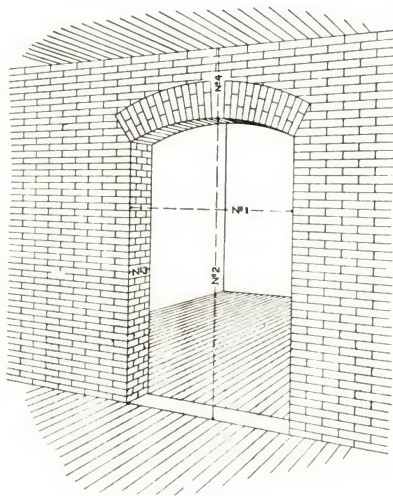
Philadelphia, Cincinnati, New York, and Pacific Coast Standards and Style "C" Labeled, take same number of bolts as National "A".

Add one bolt for Guide Roll F-54 on all labeled single slide sets, and two bolts for same item on all labeled double slide sets.

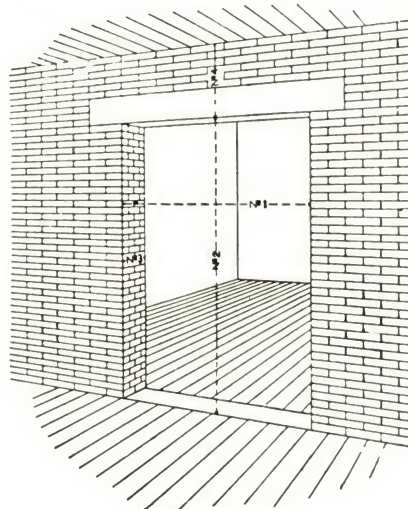
All bolts $\frac{3}{4}$ " length equals wall thickness plus 4".

Information Required with Orders

For Sliding Tin Clad Doors and Hardware



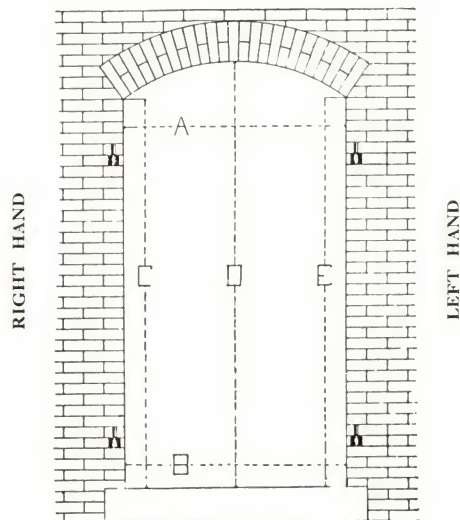
Sketch No. 1



Sketch No. 2

- | | |
|-------------------|--|
| Measurement No. 1 | Width of opening. |
| Measurement No. 2 | Maximum height of opening. |
| Measurement No. 3 | Thickness of wall. |
| Measurement No. 4 | Headroom above opening. |
| Measurement No. 5 | Unobstructed wall space on left of opening. |
| Measurement No. 6 | Unobstructed wall space on right of opening. |
| Measurement No. 7 | Thickness of doors. |

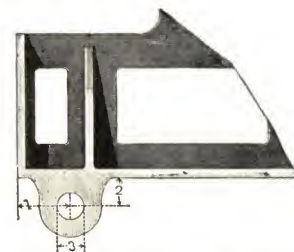
For Swinging Tin Clad Doors and Hardware



Sketch No. 3

- | | |
|---------------|----------------------------|
| Measurement A | Width at top of opening. |
| Measurement B | Width at base of opening. |
| Measurement C | Height on right hand side. |
| Measurement D | Height in center. |
| Measurement E | Height on left hand side. |
| Measurement F | Thickness of doors. |

Advise swing of doors, whether flush or overlap, and type of door frame.



Plan View of F-105 Pin Block

If pin blocks are already set in wall, give the following measurements:

- | | |
|-------|--|
| No. 1 | Distance from center of pintle to edge of opening. |
| No. 2 | Distance from center of pintle to wall. |
| No. 3 | Diameter of pintle. |

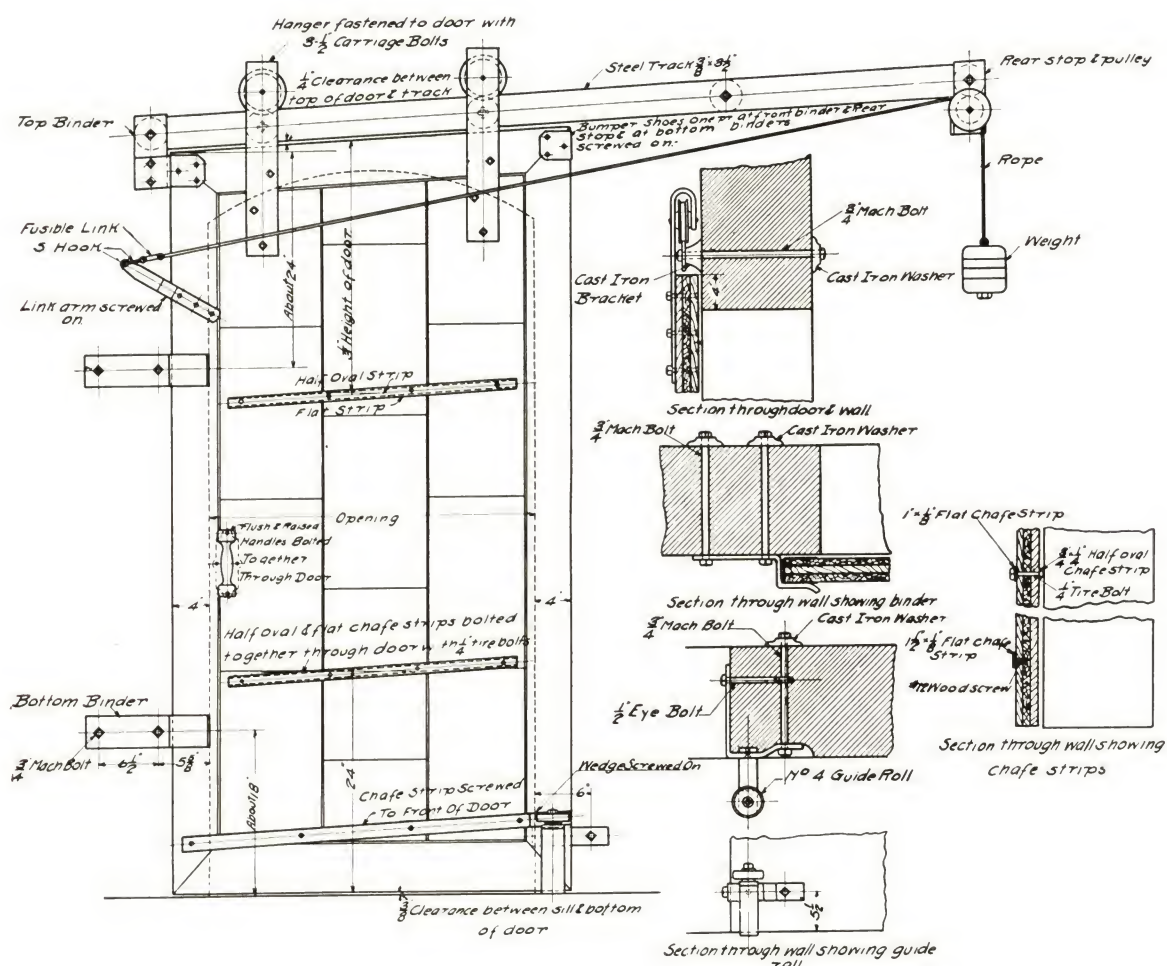
DEFINITION OF RIGHT OR LEFT HAND SWING

A right hand door is one which opens forward and to the right as a person passes through the opening.

A left hand door is one which opens forward and to the left as a person passes through the opening.

Always send a sketch of the opening.

National "A" Erection Sheet



The top binder should take the blow as the door closes.

Bolts for fastening track to wall should be 4 inches longer than thickness of wall.

Bolts for fastening bottom binders should be 2 inches longer than thickness of wall.

Bolts for guide roll should be 1 inch longer than thickness of wall.

Wall bolts are furnished only when specified on order.

Erection sheets are packed with each set of hardware shipped. Additional copies will be furnished at any time on request.

For headroom required see page 7.



Fire Door Hardware

Garage Door Hardware

Sliding Door Hardware

Overhead Door Hardware

Warehouse Door Hardware

Overhead Conveying Systems

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DOORS**

Catalog No. 210



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